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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,698	01/02/2002	Osamu Wada	111618	1789

7590  
Oliff & Berridge  
PO Box 19928  
Alexandria, VA 22320

EXAMINER

NELSON, ALECIA DIANE

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 11/03/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/019,698

Applicant(s)

WADA, OSAMU

Examiner

Alecia D. Nelson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,6-11 and 15-21 is/are rejected.
- 7) ☒ Claim(s) 2-5,12 and 13 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. ***Claims 1, 6, 10, 11, 15, 17, and 21*** are rejected under 35 U.S.C. 103(a) as being unpatentable over Deguchi et al. (U. S. Patent No. 6,480,202)

With reference to **claims 1, 6, 10, 11, 15, 17, and 21**, Deguchi et al. teaches an image display system of environment-compliant type which corrects a color of an image and displays the image based on visual environment information generated by visual environment detection means 9ambient light input section, 101), which detects a visual environment in a display region (103) of the image (see abstract), the display system comprising: colored-light information processing means (100a) which converts a given color (RGB) within the visual environment information into a coordinate value (XYZamb) within a given color space, and obtains a coordinate value forming a complementary color pair (XYZcrt) with the converted coordinate value(see column 6, lines 56-64), and correction means (100d) which corrects input-output characteristic data for display that is used by means of displaying the image, based on the obtained coordinate value forming the complementary color pair.(see column 7, lines 1-6).

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While Deguchi et al. teaches that the viewing environment converting section (100a) and the contrast correcting section (100d) determines and corrects the contrast according to the measured color values (see abstract).

While not referring to the measured color values as a given reference environment, the measured color values are taken as a reference for the amount of ambient light being projected onto the screen. The measured color values are used for generating the correction information for updating the displayed information being affected by ambient light.

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow the measured color values to be the reference environment of the image display system similar to that which is taught by Deguchi et al. in order to thereby provide an apparatus and method for processing images as well as a providing medium that are adapted to properly correct the colors of images that are affected by ambient light.

3. **Claims 7-9, 14, 16, 18-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Deguchi et al. as applied to **claims 6, 11, and 17** above, and further in view of Margulis (U.S. Patent No. 6,456,340).

With reference to **claims 8 and 19**, Deguchi et al. teaches the display device of the system as a CRT type display device, however fails to teach the usage of a projection screen as the display means. The usage of such a display means is well known in the art.

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Margulis teaches the usage of a projection screen as the display means (see column 5, lines 23-31).

Therefore it would have been obvious to allow the projection screen similar to that which is taught by Margulis to be used as the display device in a system similar to that, which is taught by Deguchi et al., in order to thereby provide a projection screen which is capable of performing correction to the image which is being affected by ambient light.

With reference to **claims 7, 14, 13, 16, and 18** Deguchi et al. teaches the display system that corrects a display affected by ambient conditions, however fails to teach that the system performs gamma correction.

Margulis teaches of an image-processing module including color/spatial gamma correction (410) and temporal gamma processing (412) as well as a plurality of other circuits for improving the image (see column 12, lines 45-58).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow for the usage of the gamma correction similar to that which is taught by Margulis in a system similar to that which is taught by Deguchi et al. to thereby allow for further image correction when correcting the ambient light conditions affecting the display. This thereby promotes optimum display characteristics for viewing.

With reference to **claim 20**, Deguchi et al. teaches that the ambient light input section (101) comprises one or more photosensors and are adapted to

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detect information on the chromaticity and the brightness of ambient light and supplies the obtained information to the image processing section (100) as information on the viewing environment. The monitor control section (102) automatically alters the TRC characteristics of the monitor (103) according to ambient light and the information selected for it. It also supplies the information on the monitor (103) including the values selected for the reference point, the contrast and the brightness to the image processing section. (see column 7, lines 11-30).

#### ***Allowable Subject Matter***

4. ***Claims 2-5, 12, and 13*** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### ***Response to Arguments***

5. Applicant's arguments with respect to ***claims 1-21*** have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alecia D. Nelson whose telephone number is (703) 305-0143. The examiner can normally be reached on Monday-Friday 9:30-6:00. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

adn/AND  
October 28, 2004

A handwritten signature in black ink, appearing to read "Amr A. Awad", with a large, sweeping flourish extending to the right.

AMR A. AWAD  
PRIMARY EXAMINER